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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/976,641	10/12/2001	Daniel Xu	INTO-0004-US 2057		
7590 12/18/2003			EXAMINER		
Timothy N. Trop			BAUMEISTER, BRADLEY W		
TROP, PRUNNER & HU, P.C. 8554 KATY FWY			ART UNIT	PAPER NUMBER	
SUITE 100 HOUSTON, TX 77024-1805			2815 DATE MAILED: 12/18/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No. 09/976,641	Applicant(s)	Xu et al.	AU			
Office Action Summary		Examiner B. William Baum		Art Unit 2815				
A SH	The MAILING DATE of this communication appears or Reply DRTENED STATUTORY PERIOD FOR REPLY IS SET				·s			
- Extensi mailing - If the p - If NO p - Failure - Any re	MAILING DATE OF THIS COMMUNICATION. ons of time may be available under the provisions of 37 CFR 1.136 (a). In date of this communication. eriod for reply specified above is less than thirty (30) days, a reply within the reriod for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause to ply received by the Office later than three months after the mailing date of patent term adjustment. See 37 CFR 1.704(b).	the statutory minimum of thirty and will expire SIX (6) MONTH the application to become ABA	(30) days will b IS from the maili NDONED (35 U.S	e considered timely. ng dete of this commun S.C. § 133).				
Status	- Cot 30	2002						
1) X	Responsive to communication(s) filed on Oct 20, 2003							
2a) 💢	This action is FINAL . 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.								
Disposi	tion of Claims			0 1 0	!!*!			
	Claim(s) 1-14 and 16-30							
	a) Of the above, claim(s) <u>1-10</u>				om consideration.			
5) 🗆	Claim(s)			is/are allowed.				
6) 💢	Claim(s) 11-14 and 16-30	is/are rejected.						
7) 🗆	Claim(s)	is/are objected to.						
8) 🗆	Claims	are subj	ect to restri	ction and/or elec	ction requirement.			
Applica	ation Papers							
9) 🗆	The specification is objected to by the Examiner.							
10)	···							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	— is all soproyed by the Examiner							
	If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) 🗀 All b) 🗀 Some* c) 🗀 None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No.								
4.0	3. Copies of the certified copies of the priority application from the International But the standard desired Office action for a list of	reau (PCT Hule 17.20	a)).		stage			
*See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
	Iotice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).						
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)							
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)								

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office action.

2. The rejections set forth in the non-final Office Action dated 8/11/2003 (paper #18) are

hereby incorporated by reference in full.

Response to Arguments

3. Applicant's arguments filed 10/20/2003 have been fully considered but they are not

persuasive.

a. Applicant has not addressed the 112-2nd paragraph rejection set forth in paragraph

2 of the previous Office Action.

b. Applicant asserts that Ovshinsky does not teach that the buried line of claim 11

includes a pair of more lightly doped regions around a more heavily doped region; that the

Examiner relies on Chang for the teaching of these two more lightly doped regions, both above

and below the line; and that the rejection is improper because Chang only teaches a more lightly

doped region below the heavily doped region, but does not teach a more lightly doped region

disposed above the heavily doped region.

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c. Applicant's reading of Ovshinsky and the basis of the rejections is not fully correct. Ovshinsky not only teaches the buried line (n+ channel or wordline 12), but further teaches that a more lightly n-doped region (14) is formed <u>above</u> this buried channel line. As such, Chang was not relied upon for the further teaching of employing a more lightly doped region <u>above</u> the wordline; rather Chang was relied upon for the teaching of employing an additional, lightly-doped n-region (38) <u>below</u> the heavily-doped N+ region (32). Accordingly, the rejections are still deemed to be proper and are therefor maintained.

Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner 5.

should be directed to the examiner, B. William Baumeister, at (703) 306-9165. The examiner

can normally be reached Monday through Friday, 8:30 a.m. to 5:00 p.m. If the Examiner is not

available, the Examiner's supervisor, Mr. Tom Thomas, can be reached at (703) 308-2772. Any

inquiry of a general nature or relating to the status of this application or proceeding should be

directed to the Group receptionist whose telephone number is (703) 308-0956.

B. William Baumeister

Primary Examiner, Art Unit 2815

December 16, 2003

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